



UNITED STEES DEPARTMENT OF COMMERCE

Patent and Trademark Office

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	APPLICATION NO.	FILING DATE	FIRST NAMED INV	ATTORNEY DOCKET NO.					
	08/935,336	5 09/22/9	7 SCHOFIELD		K	DON01-P-680			
Γ	_	. LM51/0330				EXAMINER			
	FREDERICK S BURKHART				MANN	MANNAVA.A			
	VAN DYKE GARDNER LINN & BURKHART				ART UNIT	PAPER NUMBER			
	POST OFFICE BOX 888695 GRAND RAPIDS MI 49588-8695				2736	14/E			
				•	DATE MAILED	:			

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Notice of Allowability

Application No. 08/935,336

Ashok Mannava

Applicant(s)

Examiner

Group Art Unit

2736

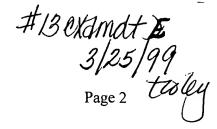
Schofield et al.



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course. |X| This communication is responsive to 3/16/99∑ The allowed claim(s) is/are 50-114 ∑ The drawings filed on _____ Sep 22, 1997 are acceptable. ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received. received in Application No. (Series Code/Serial Number) received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received: ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a). ☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED. ☐ Applicant MUST submit NEW FORMAL DRAWINGS because the originally filed drawings were declared by applicant to be informal. including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. including changes required by the proposed drawing correction filed on _____, which has been approved by the examiner. including changes required by the attached Examiner's Amendment/Comment. Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal lettter addressed to the Official Draftsperson. ☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included. Attachment(s) Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Paper No(s). 11 ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948 □ Notice of Informal Patent Application, PTO-152 Interview Summary, PTO-413 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material X Examiner's Statement of Reasons for Allowance

Application/Control Number: 08/935336

Art Unit: 2736



1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Fred Burkhart on 3/24/99.

- 2. The application has been amended as follows:
- (1) In claim 50, line 4, after "image", insert --which comprises a rearward facing view--.
- (2) In claim 50, last line, after "vehicle", insert --including relative position of objects behind the vehicle--.
- (3) In claim 102, delete lines 2 and 3 and replace them with at least two image capture devices positioned on opposite lateral sides of said vehicle and adapted to capturing images of objects;
- (4) In claim 102, line 5, delete "one image capture device;" and replace it with two image capture devices, wherein said display system displays an image synthesized from outputs of said image capture devices which approximates a substantially seamless panoramic view;—
- (5) Cancel claim 111.
- (6) In claim 112, line 1, change "111" to 102--.
- (7) In claim 113, line 1, change "111" to --102--.
- (8) In claim 114, line 1, change "one" to --two-- and in line 2, change "device" to --devices--.

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3. The following is an examiner's statement of reasons for allowance: Claims 50 and 102 now include limitations which overcome JP 110344 cited by the applicant and all other prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok Mannava whose telephone number is (703) 308-6796. The examiner can normally be reached on Mon-Thur, 8:30-5:30 and every other Friday, 9:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Hofsass, can be reached on (703) 305-4717. The fax phone number for this group is (703) 305-3988.

Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 305-4700.

Application/Control Number: 08/935336

Art Unit: 2736

AKM AKM March 24, 1999

> JEFFER VA. HOLS ASS SUPERVISORY PATENT EXAMINER GROUP 2700



Application No. 08/935,336

Applicant(s)

Schofield et al.

Interview Summary Examiner

Ashok Mannava

Group Art Unit 2736



All participants (applicant, applicant's representative, PTO personnel):								
(1) Ashok Mannava	3)							
(2) Fred Burkhart								
Date of Interview Mar 24, 1999								
Type: 🛛 Telephonic 🗌 Personal (copy is given to 🗀 appl	cant applicant's representative).							
Exhibit shown or demonstration conducted: \square Yes \square No.	If yes, brief description:							
Agreement 🖾 was reached. Claim(s) discussed: 50 and 102 Identification of prior art discussed: JP 110334 cited by applicant in paper no. 11 IDS.								
Description of the general nature of what was agreed to if an agraphicant agreed to limitations to overcome the JP reference. Li								
(A fuller description, if necessary, and a copy of the amendments the claims allowable must be attached. Also, where no copy of is available, a summary thereof must be attached.)	r, if available, which the examiner agreed would render the amendents which would render the claims allowable							
1. 🛛 It is not necessary for applicant to provide a separate red	ord of the substance of the interview.							
Unless the paragraph above has been checked to indicate to the LAST OFFICE ACTION IS NOT WAIVED AND MUST INCLUDE TO Section 713.04). If a response to the last Office action has alread FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE STATEMENT OF THE STATEMENT.	IE SUBSTANCE OF THE INTERVIEW. (See MPEP dy been filed, APPLICANT IS GIVEN ONE MONTH							
2. Since the Examiner's interview summary above (includin each of the objections, rejections and requirements that claims are now allowable, this completed form is consider Office action. Applicant is not relieved from providing a is also checked.	nay be present in the last Office action, and since the red to fulfill the response requirements of the last							
Examiner Note: You must sign and stamp this form unless it is an attachme								



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

LM51/0330

FREDERICK S BURKHART VAN DYKE GARDNER LINN & BURKHART POST OFFICE BOX 888695 GRAND RAPIDS MI 49588-8695

APPLICA	ATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINE	R AND GROUP ART UNIT	DATE MAILED		
	08/935,3	36 09/22	97 024	MANNAVA,	Α	2736 03/	30799	
First Named Applicant	SCHOFI	ELD,	35	USC 154(b)	term ext. =	0 Days.		

TITLE OF INVENTION DISPLAY ENHANCEMENTS FOR VEHICLE VISION SYSTEM

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN.	TYPE	SMALL E	NTITY	FEE DUE		DATE DUE
2 DONO1-F	°-680 340	1-451.000	R25	UTIL	_ITY	NO	\$1210.	.00	06/30/9

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u>

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above.
 If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.

 Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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